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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/084,935	03/01/2002	Shunpei Yamazaki	740756-2447	8560	
31780 ERIC ROBINS	7590 08/16/2007 SON		EXAMINER		
PMB 955		JACKSON JR, JEROME			
21010 SOUTHBANK ST. POTOMAC FALLS, VA 20165			ART UNIT	PAPER NUMBER	
	,		2815		
			MAIL DATE	DELIVERY MODE	
			08/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)			
		10/084,935	YAMAZAKI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Jerome Jackson Jr.	2815			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with	the correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING DA INSION SO I time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period of the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl will apply and will expire SIX (6) MONTH t, cause the application to become ABAN	ATION.  y be timely filed  S from the mailing date of this communic  IDONED (35 U.S.C. § 133).	·		
Status	•	*				
1)[🛛	Responsive to communication(s) filed on 11 M	lay 2007.				
2a)[	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) 19-26 and 35-62 is/are pending in the	e application.				
	4a) Of the above claim(s) is/are withdraw	• •				
5)	Claim(s) is/are allowed.			•		
6)⊠	Claim(s) <u>19-26 and 35-62</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
8)[_	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers		·			
9)[	The specification is objected to by the Examine	er.	•			
10)[	The drawing(s) filed on is/are: a) acc	epted or b) Dobjected to by	the Examiner.	•		
	Applicant may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·				
Priority ι	under 35 U.S.C. § 119					
•	Acknowledgment is made of a claim for foreign  ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
,	1. Certified copies of the priority document	s have been received.				
	2. Certified copies of the priority document	s have been received in App	olication No			
	3. Copies of the certified copies of the prior	rity documents have been re	eceived in this National Stage	!		
	application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,				
* 5	See the attached detailed Office action for a list	of the certified copies not re	ceived.			
Attachmen	nt(s)	•				
	ce of References Cited (PTO-892)	4) Interview Sur	nmary (PTO-413)			
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 5/11/07.	Paper No(s)/l 5)  Notice of Info 6)  Other:	Mail Date mal Patent Application .			

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/11/07 has been entered.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 19-26 and 35-62 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no exact original antecedent basis for claiming a halogen concentration of 5X10E20 or less and carbon concentration of 5X10E19 or less in the interlayer insulating film. The original disclosure does state TCE was used for the interlayer insulating film 209, however, the table of "main conditions" does not state a particular TCE starting condition. Therefore claiming a particular amount of halogen and carbon in the interlayer insulating film is considered new matter. The specific amounts claimed do not have proper antecedent basis or original support in the original disclosure:

Applicant's arguments filed 11/17/06 have been fully considered but they are not persuasive. Applicant argues the interlayer insulating film was formed with the same apparatus as the gate insulating film and with the same materials. This argument is true, however, the exact starting material parameters are not disclosed and the claimed concentrations do not have original support. It would not be considered new matter for applicant to broadly claim halogen and carbon in the interlayer insulating film, because page 13 of the original specification states TCE was a raw material, however, the specifically claimed concentrations of halogen and chlorine do not have original support and are considered new matter because it was not stated the interlayer insulating film is formed under the same exact conditions as the gate insulating film. Using the same apparatus and starting materials is not equivalent to stating the same starting parameters. Furthermore, the table of main conditions for making the interlayer insulating film does not state the same TCE starting parameter as for the gate insulating film. In fact no exact starting parameter for the TCE is disclosed for the interlayer insulating film. Therefore, the particularly claimed halogen and carbon concentrations do not have original support and are considered new matter.

Applicant states the interlayer insulating film may be formed using a similar method and materials as for the gate insulating film, however, this argument does not provide original exact antecedent basis for the claimed halogen and carbon concentrations claimed. What might have occurred is not concrete evidence the exact same TCE starting parameter actually did occur. In fact, the table of main conditions did not state any TCE amount. It is speculative

10/084,935

to assume the exact same starting parameters for both films. Also, what may appear obvious is not proof of original support, particularly when applicant is not stating the TCE amount is possessed or known in the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571-272-1730. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jj

PRIMARY EXAMINER

JEROME JACKSON PRIMARY EXAMINER